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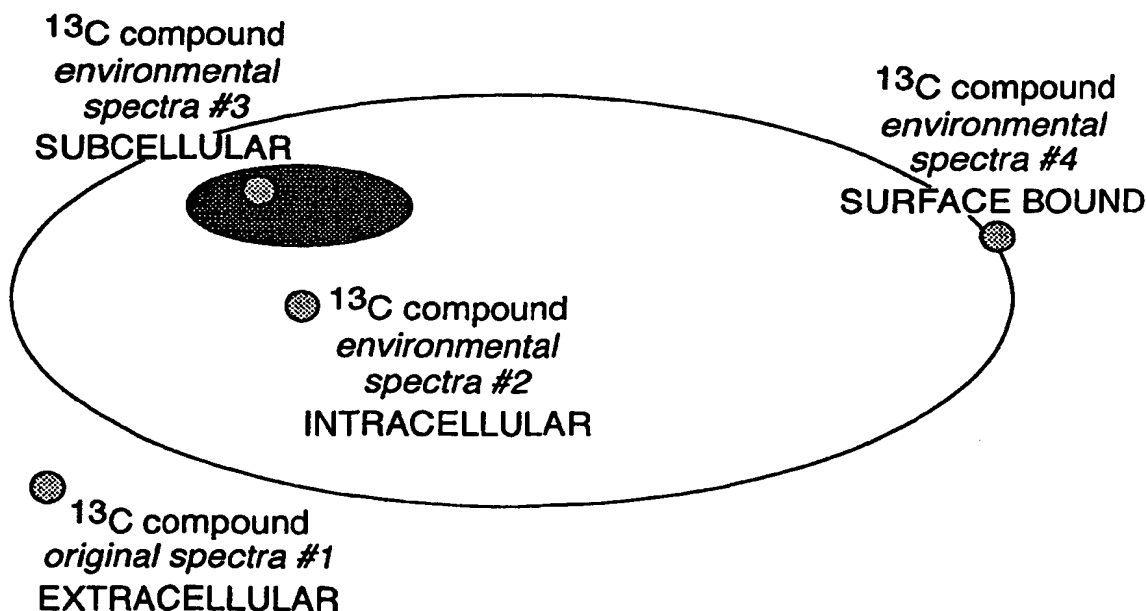
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(54) Title: NMR SPECTROSCOPIC IN VITRO ASSAY USING HYPERPOLARIZATION



(57) Abstract

An *in vitro* assay method which comprises the use of an assay reagent containing at least one NMR active nucleus, and hyperpolarising at least one NMR active nucleus of the assay reagent; and analysing the assay reagent and/or the assay by NMR spectroscopy and/or NMR imaging. The assay reagent may contain an artificially high concentration of an NMR active nucleus.